

## **1600 Series In-Line Pump**

Taco 1600 Series In-Line Pumps combine the ultimate in reliability with ease of installation and maintenance, for heating, air conditioning, pressure boosting, cooling water transfer and water supply applications. Quiet, dependable and proven performance makes the 1600 Series Pump the right choice. Available in 50 Hz and 60 Hz.



Featuring **eLink**<sup>®</sup>  
Taco *Connectivity*

**Taco**  
*Comfort Solutions*<sup>®</sup>  
A Taco Family Company

## Features & Benefits

### Quiet, dependable power and proven performance.

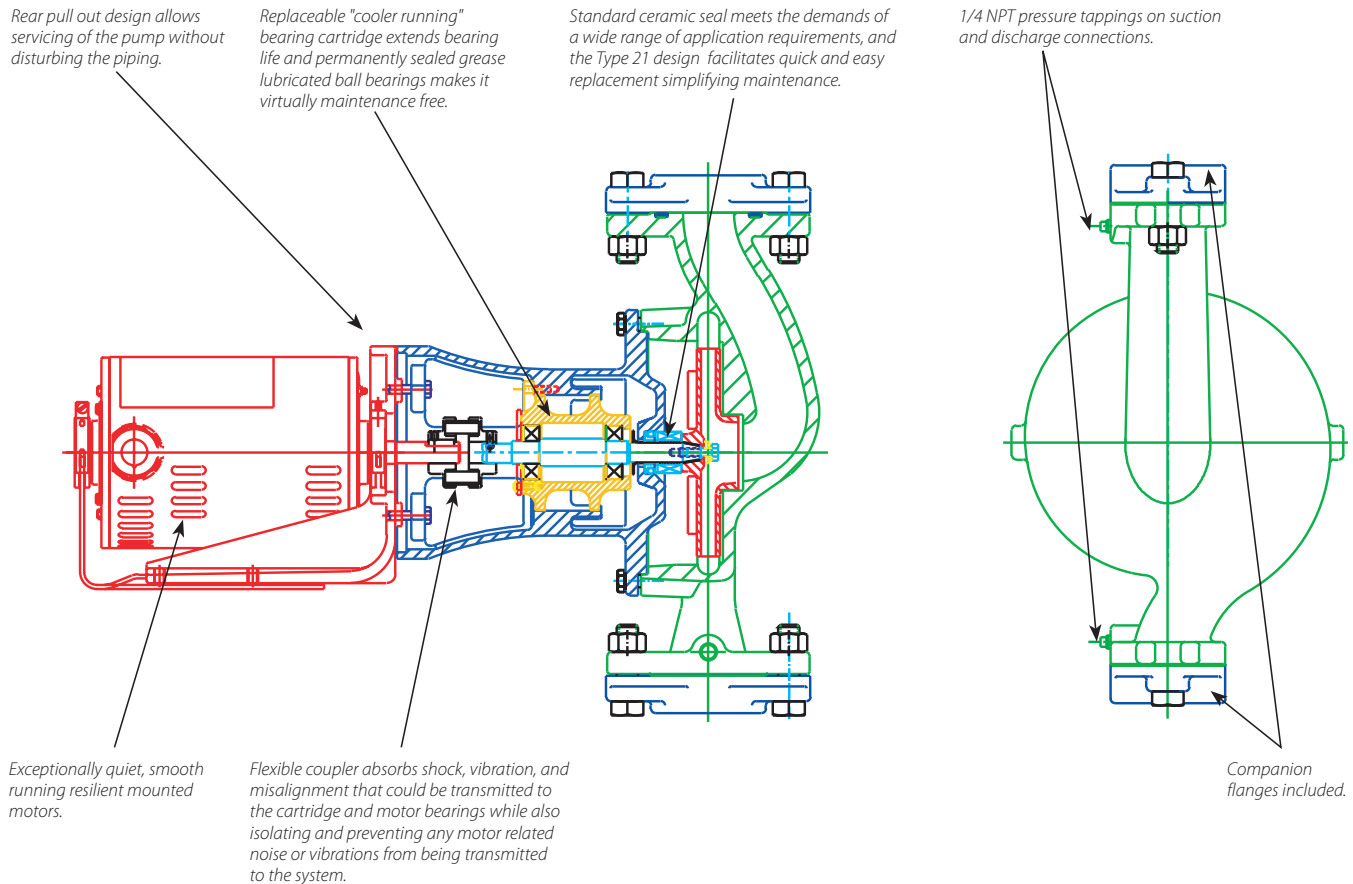
1600 Series In-Line pumps meet the latest industry standards for hydraulic performance and reliability. Each is backed by Taco Comfort Solutions a worldwide leader in the design and manufacture of heating and cooling equipment for more than 90 years. Taco "1600" Series In-Line pumps are available in 15 models ranging in size from 1 1/2" X 1-1/2" to 2" X 2" with a flow range

from 10 to 235 GPM and head capacities up to 68 feet.

Taco 1600 Series In-Line pumps utilize an exclusive replaceable, cooler running bearing cartridge design. This unique design isolates the bearings from the effects of system fluid temperatures which greatly extends bearing life. The cartridge design incorporates **permanently sealed** grease lubricated ball bearings making it virtually maintenance free. All 1600 series In-Line Pumps are

furnished with ceramic seals (standard) in order to meet a wide range of application requirements. The standard mechanical seal is an industry-standard Type 21 design consisting of the rotating element (SS spring & retainer, EPT elastomers, and carbon mating ring) and ceramic seat.

The standardized cartridge design simplifies maintenance with minimal parts requirements, one size cartridge and mechanical seal to service the entire product line.



## Features

### Rugged Casing Design

### Cartridge Assembly

### Pressure Tappings

### One Piece Enclosed Impeller

### Standard Mechanical Seal

### Flexible Coupler

### Resilient Mounted Motor

### Parts Flexibility

### Factory Tested

## Benefits

The 1600 Series has a maximum operating pressure of 175psi, and a maximum operating temperature of 300°F. The 1600 Series is available in cast-iron stainless steel fitted construction or all stainless steel construction.

Replaceable "cooler running" bearing cartridge extends bearing life, and with permanently sealed greased lubricated ball bearings it is virtually maintenance free.

Pressure tappings allow for differential pressure readings to be taken across the pump.

Dynamically balanced stainless steel impeller assures long life and higher pump efficiencies.

1600 Series In-Line pumps utilize a Type 21 seal design which facilitates quick and easy replacement. Available in ceramic (standard) or the new "Sealide C" (for more aggressive system fluids) ensures the flexibility to meet a wide range of application requirements. One size seal fits all models.

Flexible coupler absorbs shock, vibration and misalignment that could be transmitted to the cartridge and motor bearings while also isolating and preventing any motor related noise or vibrations from being transmitted to the system.

Resilient mounted motor insures quiet reliable vibration free operation of the pump.

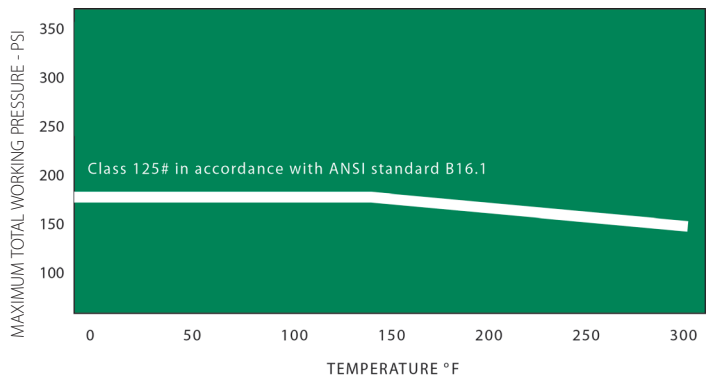
Superior parts flexibility: one cartridge, one seal, and two motor frames fit all pump models.

All 1600 series pumps are factory tested, and are built in accordance with Hydraulic Institute Standards.

## Operating Specifications

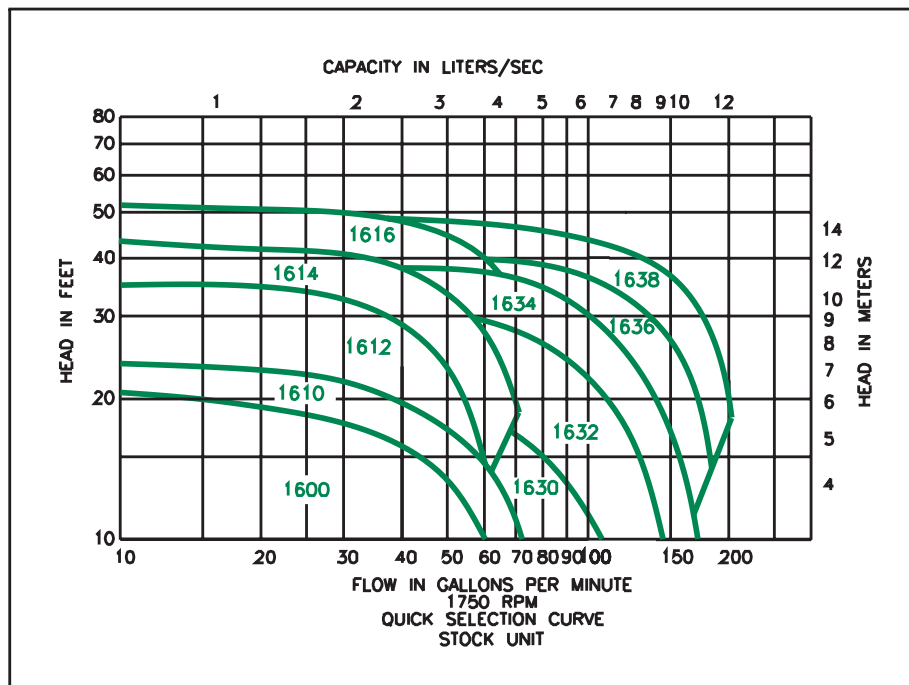
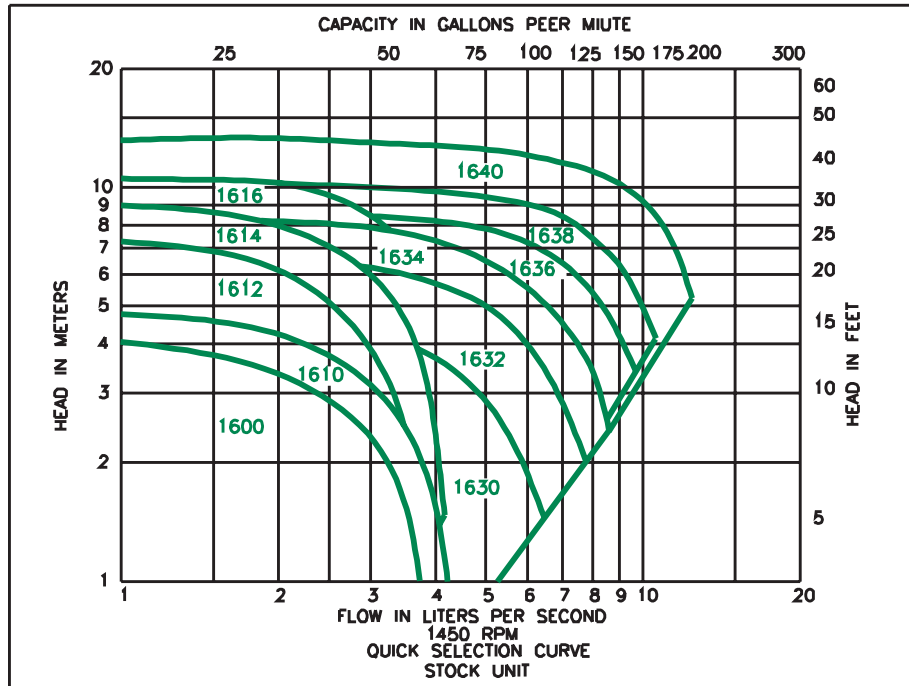
Description	Standard	Optional
Pressure	175psi Maximum Operating Pressure (125psi Flanges Standard)	---
Temperature Mechanical Seal	250°F	300°F
Motors	Nema Standard, Resilient Mounted	Special Enclosures
Coupler	Flexible Type	---
Pump Bearings	Ball Bearing Replaceable Cartridge	---
Pressure Tappings	Tapped Suction & Discharge Ports Provided as Standard	---
Pump Flanges	Available with the Pump	---

## Pressure Temperature Ratings



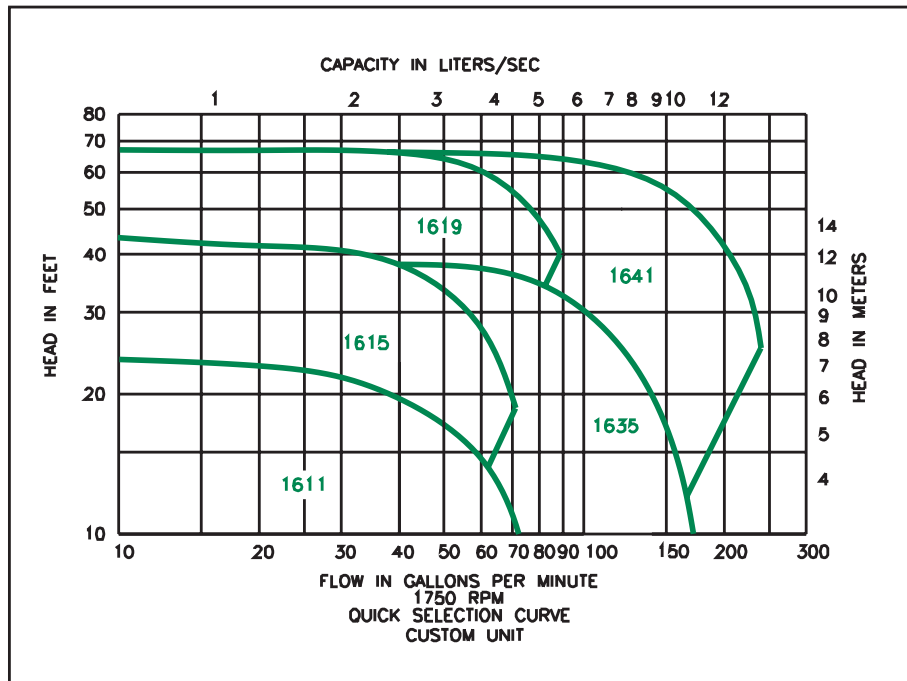
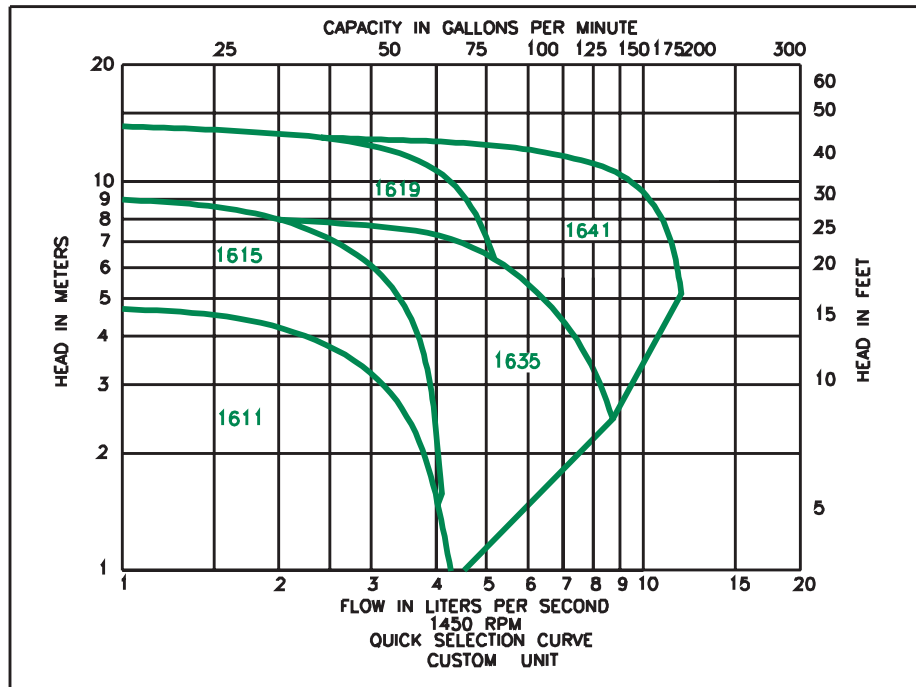
## 1600 Series Performance Field 1450 RPM 50 Hz

Curves also available on TacoNet®.



## 1600 Series Performance Field 1750 RPM 60 Hz

Curves also available on TacoNet®.

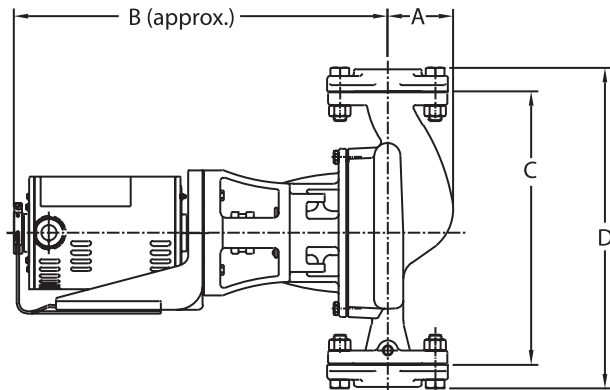


## Applications

LoadMatch® Systems	Cooling Towers
Air Conditioning Systems	Golf Courses
Recirculation	Dry Cleaning Plants
Booster Service	Livestock Watering
Heating Systems	Bottle Washers
Laundry Equipment	Lawn Sprinklers

## Materials of Construction

Description	Standard	Optional	NSF 61
Casing	Cast Iron	SS (304)	SS (304)
Impeller	Cast SS (304)	---	SS (304)
Shaft	SS (416)	---	SS (416)
Bracket	Cast Iron	Cast Iron with SS Face Plate	Cast Iron with SS Face Plate



## Pump Dimensions & Weights

Model No.		Flange Size	Power		Dimensions				Weight
Custom	Stock		60Hz HP (KW)	50Hz HP (KW)	A	B	C	D	
1611	1600	1-1/2 (38)	1/4* (.19)	1/6* (.17)	3 (76)	16-1/2 (419)	10-1/4 (260)	12-7/8 (327)	59
	1610		1/3* (.25)	1/4* (.19)	3 (76)	16-1/2 (419)			61
			1/2 (.37)	1/3* (.25)	3 (76)	17.00 (432)			
1615		1-1/2 (38)	1/3* (.25)	1/4* (.19)	3-1/8 (79)	18 (457)	13-1/2 (343)	16-1/8 (410)	
	1612		1/2 (.37)	1/3* (.25)	3-1/8 (79)	18-1/2 (470)			89
	1614		3/4 (.56)	1/2 (.37)	3-1/8 (79)	19 (483)			91
			1 (.75)	3/4 (.56)	3-1/8 (79)	19-1/2 (495)			
1619		2 (51)	3/4 (.56)	1/2 (.37)	3 (76)	18-1/2 (470)	14-1/2 (368)	17-3/8 (441)	
	1616		1 (.75)	3/4 (.56)	3 (76)	19 (483)			99
			1-1/2 (1.1)	1 (.75)	3 (76)	21 (533)			
			2 (1.5)	1-1/2 (1.1)	3 (76)	23 (584)			
1635	1630	2 (51)	1/2 (.37)	1/3* (.25)	3-1/2 (89)	18 (457)	13-1/2 (343)	16-1/8 (410)	91
	1632		3/4 (.56)	1/2 (.37)	3-1/2 (89)	18-1/2 (470)			93
	1634		1 (.75)	3/4 (.56)	3-1/2 (89)	19 (483)			100
			1-1/2 (1.1)	1 (.75)	3-1/2 (89)	21 (533)			
1641	1636	2 (51)	1-1/2 (1.1)	1 (.75)	3-5/8 (92)	21 (533)	16-1/2 (419)	19-1/2 (495)	126
	1638		2 (1.5)	1 1/2 (1.1)	3-5/8 (92)	23 (584)			153
			3 (2.37)	2 (1.5)	3-5/8 (92)	24 (610)			

- English dimensions are in inches. Metric dimensions are in millimeters.
- Do not use for construction purposes unless certified.

- Metric data is presented in ( ).
- \* 1/4 HP and 1/3 HP AVAILABLE IN 1 PHASE ONLY.



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- Order Information
- Technical Support
- Taco Rep Information
- Catalog Sheets



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